Performance Data Sheet

AVA5542EXC

General Information

Model	AVA5542EXC	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	240V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	12600	10800					
	Watts	1410	1370					
	Amps	9.62	9.50					
	Lb/h	165	145					
-10	Btu/h	13200	11600	9890				
	Watts	1550	1540	1500				
	Amps	10.1	10.0	9.90				
	Lb/h	172	154	136				
-5	Btu/h	14300	12700	11100	9450			
	Watts	1670	1700	1690	1650			
	Amps	10.5	10.5	10.5	10.3			
	Lb/h	184	169	153	135			
0	Btu/h	15800	14300	12700	11100	9360		
	Watts	1780	1840	1870	1870	1830		
	Amps	10.8	10.9	11.0	10.9	10.8		
	Lb/h	202	189	174	158	140		
5	Btu/h	17900	16300	14700	13000	11300		
	Watts	1880	1970	2040	2070	2070		
	Amps	11.1	11.3	11.4	11.5	11.4		
	Lb/h	226	214	200	185	168		
10	Btu/h	20300	18800	17100	15400	13600	11700	9710
	Watts	1960	2090	2190	2250	2290	2290	2270
	Amps	11.3	11.6	11.8	12.0	12.0	12.0	11.9
	Lb/h	255	244	231	217	200	181	159
15	Btu/h	23300	21600	19900	18100	16100	14100	12000
	Watts	2040	2190	2320	2420	2490	2530	2540
	Amps	11.5	11.9	12.2	12.4	12.6	12.6	12.7
	Lb/h	290	279	267	253	236	217	195
20	Btu/h	26700	24900	23100	21100	19000	16900	14600
	Watts	2090	2280	2440	2570	2670	2750	2790
	Amps	11.7	12.1	12.5	12.8	13.1	13.2	13.4
	Lb/h	329	319	307	293	277	257	234

25	Btu/h	30600	28700	26600	24500	22300	19900	17400
	Watts	2140	2360	2550	2710	2840	2950	3030
	Amps	11.8	12.3	12.8	13.2	13.5	13.8	14.0
	Lb/h	375	365	352	338	321	301	277
30	Btu/h	34900	32800	30600	28300	25800	23200	20500
	Watts	2170	2420	2640	2830	2990	3130	3240
	Amps	11.8	12.5	13.0	13.5	13.9	14.3	14.6
	Lb/h	425	415	402	387	369	348	323
35	Btu/h	39800	37400	35000	32400	29600	26800	23800
	Watts	2190	2470	2710	2930	3130	3300	3440
	Amps	11.8	12.5	13.2	13.8	14.3	14.8	15.2
	Lb/h	481	470	457	441	422	399	373
40	Btu/h	45000	42400	39700	36800	33800	30700	27300
	Watts	2190	2500	2770	3020	3250	3440	3620
	Amps	11.8	12.6	13.3	14.0	14.6	15.2	15.7
	Lb/h	542	530	516	498	478	453	425
45	Btu/h	50800	47900	44900	41700	38300	34800	31100
	Watts	2190	2520	2820	3100	3350	3580	3780
	Amps	11.7	12.6	13.4	14.2	14.9	15.6	16.2
	Lb/h	608	595	579	560	537	511	481
50	Btu/h	57000	53800	50400	46800	43100	39200	35200
	Watts	2160	2520	2850	3150	3430	3690	3920
	Amps	11.6	12.6	13.5	14.4	15.2	16.0	16.7
	Lb/h	679	664	646	625	601	573	540
55	Btu/h	63700	60100	56300	52400	48200	43900	39500
	Watts	2130	2510	2860	3190	3500	3780	4040
	Amps	11.4	12.5	13.5	14.5	15.4	16.3	17.1
	Lb/h	755	738	718	695	668	637	601

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.614990E+04	-2.191207E+01	7.452362E+00	3.197310E+02
C2	2.546537E+02	-2.854815E+01	-4.668723E-02	4.767726E-01
C3	-1.064635E+02	3.847919E+01	6.774729E-02	-2.023071E+00
C4	1.524597E+01	-1.242715E-01	-1.249946E-03	1.644772E-01
C5	2.132805E+00	5.677887E-01	1.217014E-03	6.000426E-02
C6	-2.802235E-01	-2.139120E-01	-3.105284E-04	1.206460E-02
C7	-6.931932E-06	-1.196451E-04	3.648962E-07	-7.921624E-05
C8	-7.391549E-02	-1.682062E-03	3.345611E-06	-6.626858E-04
C9	-1.072208E-02	6.255733E-04	2.051377E-06	-1.738212E-04
C10	1.354161E-05	1.831774E-04	-1.698229E-07	-6.419109E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature